

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P555701

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-80-86-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P555701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-3LO-35-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

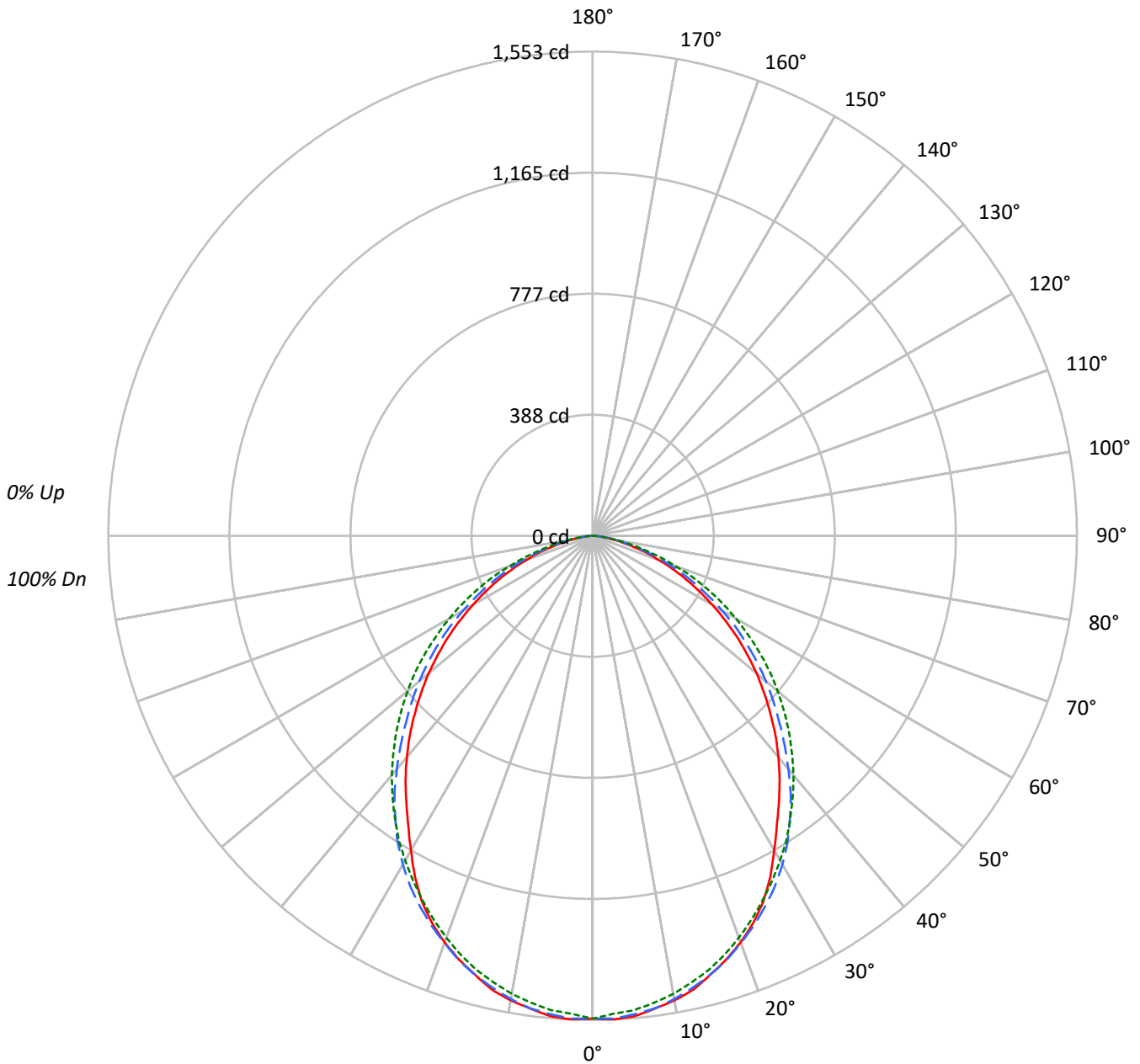
Lumens per Lamp: N/A
Luminaire Lumens: 3581.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8335	8335	8335
5°	8357	8322	8251
10°	8269	8246	8152
15°	8122	8122	8029
20°	7950	7960	7858
25°	7688	7783	7660
30°	7239	7565	7472
35°	6841	7251	7263
40°	6509	6859	7039
45°	6136	6444	6775
50°	5744	6073	6486
55°	5298	5650	6136
60°	4771	5155	5706
65°	4213	4585	5191
70°	3511	3904	4409
75°	2759	3117	3452
80°	1974	2194	2433
85°	1284	1284	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	4.1
10°-20°	409.6	11.4
20°-30°	598.6	16.7
30°-40°	679.5	19.0
40°-50°	655.9	18.3
50°-60°	541.1	15.1
60°-70°	360.3	10.1
70°-80°	161.2	4.5
80°-90°	28.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1154.0	32.2
0°-40°	1833.5	51.2
0°-60°	3030.6	84.6
0°-90°	3581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1547	1546	1540	1532	1527	146
15°	1458	1461	1458	1451	1441	411
25°	1295	1305	1311	1301	1290	593
35°	1041	1056	1104	1110	1105	652
45°	806	820	847	885	890	622
55°	565	574	602	635	654	504
65°	331	340	360	386	408	328
75°	133	140	150	157	166	145
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1552.9	1553.4	1549.9	1540.4	1534.4
5°	1546.9	1546.3	1540.4	1532.0	1527.3
7.5°	1529.7	1530.8	1529.1	1517.2	1510.6
10°	1513.0	1513.6	1508.8	1499.3	1491.6
12.5°	1491.6	1491.0	1484.4	1479.7	1467.2
15°	1457.7	1461.2	1457.7	1451.1	1441.0
17.5°	1424.9	1424.9	1427.3	1416.0	1408.3
20°	1388.0	1389.8	1389.8	1380.9	1372.0
22.5°	1345.2	1350.6	1352.4	1342.8	1332.1
25°	1294.6	1304.8	1310.7	1301.2	1289.9
27.5°	1233.4	1248.8	1266.7	1259.5	1247.0
30°	1164.9	1187.5	1217.3	1211.3	1202.4
32.5°	1100.1	1122.7	1163.7	1161.4	1156.6
35°	1041.2	1055.5	1103.7	1109.6	1105.4
37.5°	985.3	998.3	1043.6	1057.3	1053.7
40°	926.4	940.6	976.3	1000.7	1001.9
42.5°	868.1	881.7	910.9	946.0	946.0
45°	806.2	819.9	846.6	885.3	890.1
47.5°	745.5	759.8	785.9	824.6	832.4
50°	686.0	699.1	725.3	762.7	774.6
52.5°	624.1	638.4	664.0	698.5	715.7
55°	564.6	574.1	602.1	635.4	653.9
57.5°	502.7	511.7	543.2	571.8	590.8
60°	443.2	454.6	478.9	508.1	530.1
62.5°	386.1	398.0	418.9	444.4	469.4
65°	330.8	339.7	360.0	385.5	407.6
67.5°	277.3	285.0	305.2	323.1	346.3
70°	223.1	233.2	248.1	265.4	280.2
72.5°	179.7	183.8	196.3	208.8	224.3
75°	132.7	139.8	149.9	157.1	166.0
77.5°	95.2	99.4	105.3	111.3	119.6
80°	63.7	65.4	70.8	72.0	78.5
82.5°	38.7	39.9	41.1	41.6	44.0
85°	20.8	20.8	20.8	19.6	19.6
87.5°	11.9	11.9	10.1	8.3	5.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)